

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:470943 CAPLUS Full-text

DN 141:38637

TI Method of preparing 10H-dibenzo[b,f][1,4]thiazepin-11-one

IN Kwak, Byong-sung; Chung, Ki-nam; Koh, Ki-ho; Hwang, Hee-jun

PA SK Corporation, S. Korea

SO PCT Int. Appl., 16 pp.

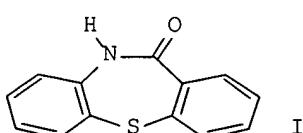
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004047722	A2	20040610	WO 2003-KR2579	20031126
	WO 2004047722	A3	20041202		
	WO 2004047722	C1	20050721		
	W: JP, US RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR KR 2004046694 A 20040605 KR 2002-74691 20021128 EP 1565448 A2 20050824 EP 2003-774336 20031126 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK JP 2006508152 T2 20060309 JP 2004-555125 20031126				
PRAI	KR 2002-74691	A	20021128		
	WO 2003-KR2579	W	20031126		
OS	CASREACT 141:38637				
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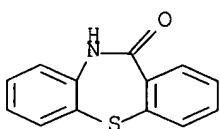
AB Disclosed is a method of preparing 10H-dibenzo[b,f][1,4]thiazepin-11-one I, including reacting dithiosalicylic acid with 1-chloro-2-nitrobenzene in a basic aqueous solution in the presence or absence of a reducing agent, to prepare 2-(2-nitrophenylsulfuryl)benzoic acid; subjecting the 2-(2-nitrophenylsulfuryl)benzoic acid to nitro group reduction in the presence of H₂, a solvent and a heterogeneous metal catalyst, to prepare 2-(2-aminophenylsulfuryl)benzoic acid; and directly cyclizing the 2-(2-aminophenylsulfuryl)benzoic acid in an organic solvent in the presence or absence of an acid catalyst. The method according to the present invention is economical due to the use of the inexpensive starting material, and also environmentally friendly and efficient by minimizing the use of the organic solvent and performing direct cyclization without the activation of carboxylic acid.

IT 3159-07-7P, Dibenzo[b,f][1,4]thiazepin-11(10H)-one

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (multi-step synthesis of 10H-dibenzo[b,f][1,4]thiazepin-11-one from dithiosalicylic acid)

RN 3159-07-7 CAPLUS

CN Dibenzo[b,f][1,4]thiazepin-11(10H)-one (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

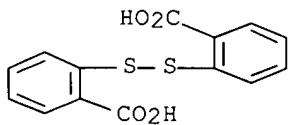


IT 119-80-2, Dithiosalicylic acid

RL: RCT (Reactant); RACT (Reactant or reagent)
(multi-step synthesis of 10H-dibenzo[b,f][1,4]thiazepin-11-one from
dithiosalicylic acid)

RN 119-80-2 CAPIUS

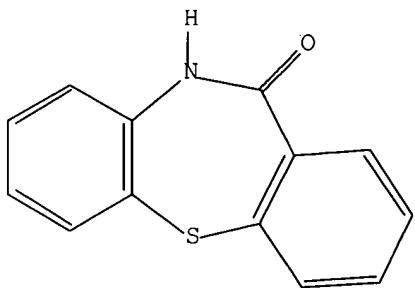
CN Benzoic acid, 2,2'-dithiobis- (9CI) (CA INDEX NAME)



=> d 12; d 16; d 110; d his; log y

L2 HAS NO ANSWERS

L1 STR

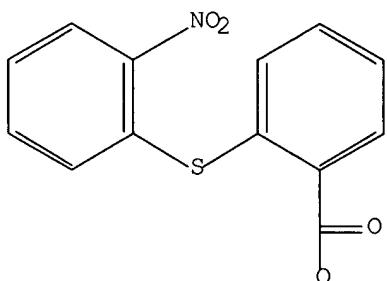


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L2 QUE ABB=ON PLU=ON L1

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L5 STR

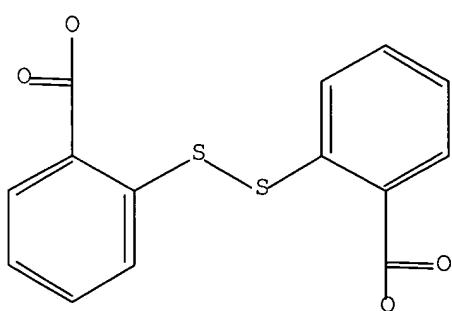


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L10 HAS NO ANSWERS

L9 STR



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L10 QUE ABB=ON PLU=ON L9

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L1 STRUCTURE uploaded

L2 QUE L1

L3 6 S L2

L4 243 S L2 FUL

L5 STRUCTURE uploaded

L6 QUE L5

L7 21 S L6

L8 474 S L6 FUL

L9 STRUCTURE UPLOADED
L10 QUE L9
L11 13 S L10
L12 230 S L10 FUL

FILE 'CAPLUS' ENTERED AT 21:06:03 ON 29 OCT 2006
L13 103 S L4
L14 599 S L12
L15 1 S L13 AND L14
L16 87 S L8
L17 25 S L16 AND L13

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